

VACUUM PUMPS

COMPARATIVE TABLE	LBX V <i>VACU-V10-001</i> <i>VACU-V20-001</i> <i>VACU-V50-001</i>	LBX C <i>VACU-V10-001</i>	LBX R <i>VACU-R10-001</i> <i>VACU-R20-001</i>	LBX K <i>VACU-K10-001</i>
Type	piston pump	diaphragm pump	diaphragm pump	rotary vane pump
Chemical Resistance	low	intermediate	high	low
Chamber Material	aluminum alloy	PTFE-coated aluminum alloy	PTFE	aluminum alloy
Valve Plate Material	FKM	FKM	FFKM	N/A
Application Examples	vacuum filtrations, suspended solid testing, air sampling	vacuum filtrations, solid-phase extractions, solvent purifications	applications involving chemically aggressive gases; vacuum filtrations, solid-phase extractions, solvent purifications	applications requiring high vacuum and high flow rate

SELECTION GUIDE

How to choose the right vacuum pump?

1) Identify the main chemical component(s) of the sample.

2) By using chemical compatibility tables, evaluate whether the main chemical components of the sample are compatible with the chamber and valve plate material of the pump.

For example, when evaluating the compatibility of a sample whose main component is acetone, it will be observed that acetone shows good compatibility with PTFE and FFKM, but very limited compatibility with FKM. Therefore, in this case, an LBX R vacuum pump will be the most suitable option.